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NPIC/R-141/64
February 1964

[redacted]

PHOTOGRAPHIC INTERPRETATION REPORT

SAM ASSEMBLY AND SUPPORT FACILITIES, LENINGRAD, USSR

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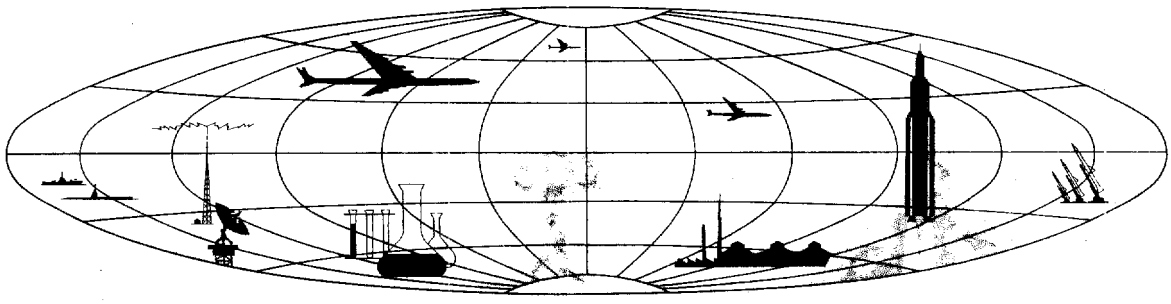

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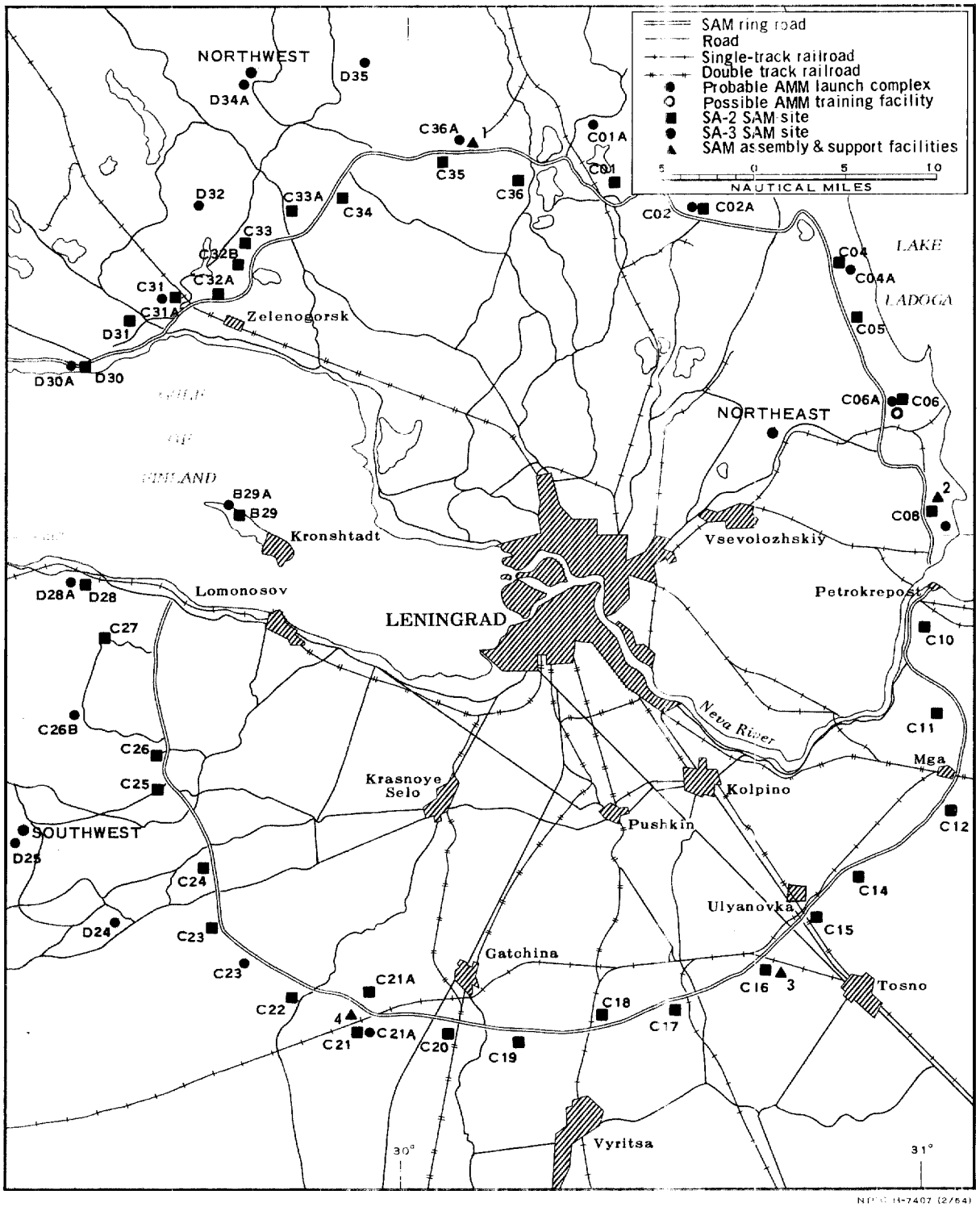

FIGURE 1. SAM ASSEMBLY AND SUPPORT FACILITIES NEAR LENINGRAD.

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INTRODUCTION

Four SAM assembly and support facilities were identified in the Leningrad area on KEYHOLE photography of [redacted] These facilities are on the Leningrad SAM ring road and each is connected by rail spur to the main rail system (Figure 1). The overall design, the structures, and the dimensions of the Leningrad facilities are similar to Moscow SAM assembly and support facilities like the one at Istra. 1/ No Type I or Type II SAM support facilities, such as have been observed in other areas defended by SA-2s, have been identified near Leningrad. 2/

Construction on at least one of these Leningrad facilities was observed on TALENT photography of [redacted] The next photographic coverage of the Leningrad area, KEYHOLE [redacted] showed one facility apparently complete. The other three facilities appeared complete by [redacted]

The lack of photographic coverage in the [redacted] period and the quality of photography from [redacted] leave a gap in the dating of construction of the facilities.

The facilities probably support SA-2 and SA-3 systems in the area by providing for assembly, checkout, recycling, and storage. All are readily accessible to the probable AMM launch complexes and may service them. There is no photographic evidence that they do; conversely, there is no photographic evidence that they do not.

DETAILED ANALYSIS

SAM ASSEMBLY AND SUPPORT FACILITY 1

This secured facility [redacted] is approximately 27 nautical miles (nm) north of Leningrad at 60-23-20N 30-11-10E. It is situated on the north side of the SAM ring road and is served by a single-track rail spur that extends approximately 4.5 nm south from the main rail line.

The facility is composed of an assembly and support area and a housing and administration area (Figure 2). The assembly and support area is separately fenced and contains 70 structures ranging in size from 460 by 80 feet to 30 by 30 feet. The area is served by rail spur and an internal network of roads. The housing and administration area, also separately fenced, contains 36 administration, housing, and storage buildings; and there are 38 other buildings, not fenced, that probably furnish support.

Assembly and Support Area

The numbering of the following list of structures is keyed to the item numbers on Figure 2.

1. Possible ready-missile storage building 155 x 150 feet; concrete apron at entrance; probably flat roof
2. Possible ready-missile storage building 145 x 135 feet; concrete apron at entrance; probably flat roof
3. Possible ready-missile storage building 230 x 160 feet; large concrete apron at entrance; multiarched roof
4. Drive-through building 105 x 55 feet; gable roof
5. Building 30 x 30 feet; flat roof
6. Building 40 x 30 feet; flat roof
7. Building 185 x 85 feet; two concrete roads pass through; probably low-pitched gable roof

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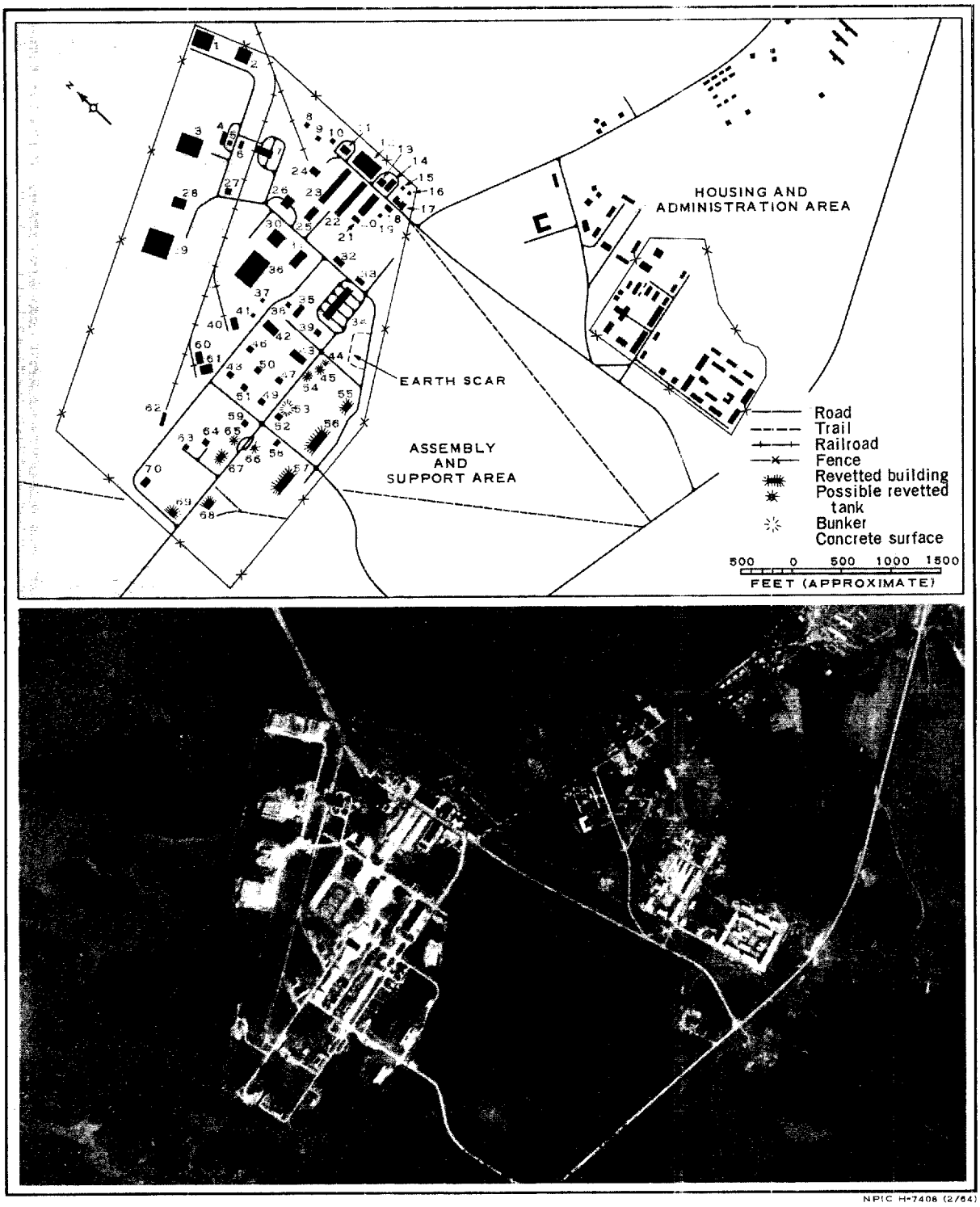

FIGURE 2. FACILITY 1.

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8-10. Buildings 65 x 50 feet; probably flat roofs
11. Building 85 x 65 feet; probably flat roof
12. Storage building 270 x 100 feet; concrete apron along one side; probably flat roof
13. Building 80 x 55 feet; roof type undetermined
14. Building 165 x 75 feet; probably gable roof
15-16. Buildings 35 x 35 feet; roof type undetermined
17. U-shaped administration-type building 120 x 70 feet; probably gable roof
18. Building 90 x 55 feet; probably gable roof
19. Building 60 x 45 feet; probably gable roof
20. Storage building 300 x 100 feet; concrete aprons on three sides; flat roof
21. Building 100 x 35 feet; probably flat roof
22. Storage building 460 x 80 feet; concrete apron between this and Item 23; gable roof
23. Storage building 460 x 70 feet; concrete apron between this and Item 22; gable roof
24. Rail-served probable heat plant 70 x 45 feet
25. Storage building 160 x 90 feet; gable roof
26. Drive-through building 115 x 75 feet; two concrete roads pass through; probably low-pitched gable roof
27. Building 60 x 60 feet; probably flat roof
28. Possible ready-missile storage building 115 x 110 feet; concrete apron at entrance; flat roof
29. Possible ready-missile storage building, 245 x 235 feet; large concrete apron at entrance; multiarched roof
30. Drive-through building 180 x 150 feet; wide concrete aprons at both entrances; flat roof
31. Probable drive-through building 230 x 100 feet; probably gable roof
32. Building 110 x 70 feet; roof type undetermined
33. Building 70 x 65 feet; roof type undetermined
34. Drive-through probable checkout building 360 x 105 feet; three [redacted] wide roads pass through building; probably flat roof 25X1A
35. Storage building 120 x 35 feet; gable roof
36. Building 330 x 215 feet; wide concrete apron at entrance; multiarched roof
37. Building 75 x 60 feet; probably flat roof
38-39. Buildings 65 x 35 feet; each has two concrete aprons; probably gable roofs
40. Rail-served building 135 x 70 feet; probably gable roof
41. Building 65 x 60 feet; probably flat roof
42-43. Drive-through probable checkout buildings 130 x 70 feet; concrete aprons on two sides; flat roofs
44. Revetted storage building 35 x 25 feet; roof type undetermined
45. Revetted possible oxidizer storage tank, approximately 25 feet in diameter
46-49. Drive-through probable checkout buildings 75 x 45 feet; probably gable roofs
50-51. Buildings 75 x 65 feet; probably gable roofs
52. Building 70 x 45 feet; probably flat roof
53. Probable bunker 80 x 35 feet
54. Revetted storage building 60 x 35 feet; roof type undetermined
55. Revetted storage building 70 x 50 feet; wide concrete apron at entrance; flat roof

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56-57. Revetted storage buildings 205 x 80 feet; wide concrete aprons at entrances; flat roofs
58. Drive-through building 90 x 40 feet; probably gable roof
59. Building 85 x 65 feet; concrete aprons on two sides; probably flat roof
60. Rail-served building 100 x 70 feet; probably flat roof
61. Rail-served building 145 x 100 feet; probably flat roof
62. Rail-served building 90 x 30 feet; gable roof
63. Building 35 x 35 feet; probably flat roof
64. Building 65 x 50 feet; probably gable roof
65-66. Probably revetted storage buildings 30 x 30 feet; flat roofs
67. Revetted storage building 85 x 55 feet; probably gable roof
68. Storage building 100 x 65 feet, revetted on two sides; concrete apron at entrance; probably flat roof
69. Revetted storage building 70 x 65 feet; concrete apron at entrance; probably flat roof
70. Building 95 x 85 feet; concrete aprons on three sides; probably multiarched roof

Housing and Administration Area

Administration buildings, multistory:
- 1 U-shaped, 165 x 100 feet
- 1 T-shaped, 165 x 100 x 65 feet

Barracks, multistory:
- 2 250 x 65 feet
- 8 200 x 65 feet
- 7 165 x 65 feet
- 2 150 x 50 feet
- 4 100 x 65 feet
- 1 85 x 65 feet

Single dwellings, single story:
- 2 70 x 65 feet

Storage buildings, single story:
- 1 200 x 35 feet
- 1 130 x 100 feet
- 3 75 x 25 feet
- 1 65 x 50 feet
- 1 50 x 35 feet
- 1 50 x 15 feet

There are 38 other buildings, not fenced, that probably furnish support.

SAM ASSEMBLY AND SUPPORT FACILITY 2

Facility 2 [redacted] is approximately 11.7 nm east-northeast of Vsevolozhskiy and 22.5 nm east-northeast of Leningrad at 60-03-00N 31-02-30E. The secured facility is on the western shore of Lake Ladoga and is served by the SAM ring road and a single-track rail spur that extends approximately 2.5 nm south from the main rail line. 25X1A

Figures 3 and 4 show the assembly and support area and a housing and administration area. The administration and support area is separately fenced and contains 71 structures ranging in size from 330 by 235 feet to 25 by 25 feet. The area is served by rail spur and an internal network of roads. The housing and administration area is also separately fenced and contains 51 administration, housing, and storage buildings. There are additional support building in unfenced areas nearby.

Assembly and Support Area

The numbering of the following list of structures is keyed to the item numbers on Figure 3.

1-2. Possible buried tanks, approximately 50 feet in diameter
3. Unidentified structure 25 x 25 feet

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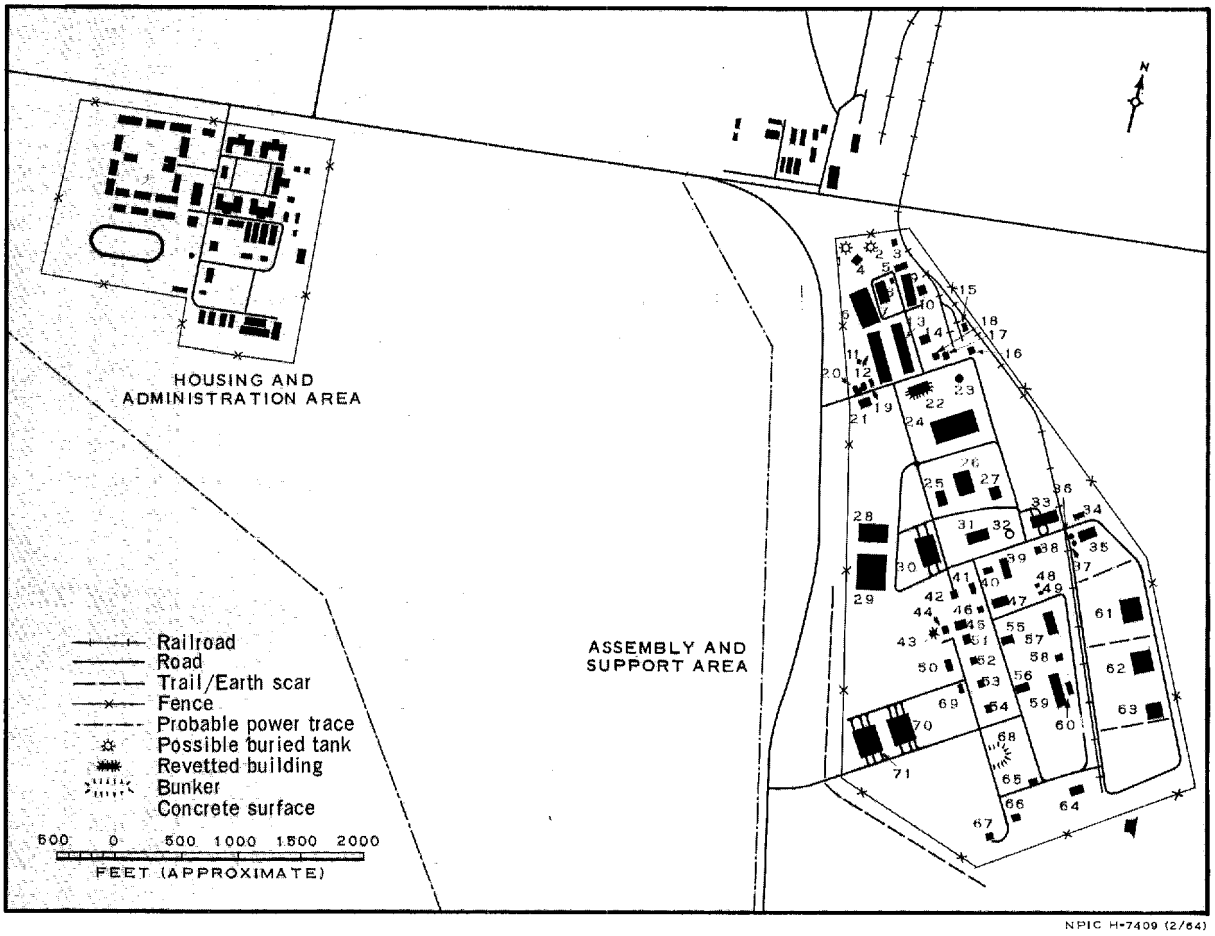

FIGURE 3. FACILITY 2.

4. Building 50 x 50 feet; probably gable roof
5. Building 75 x 50 feet; probably low-pitched gable roof
6. Building 265 x 135 feet; probably flat roof
7. Building 150 x 75 feet; probably flat roof
8. Building 25 x 25 feet; roof type undetermined
9. Storage building 235 x 65 feet; gable roof
10. Building 65 x 65 feet; probably gable roof
11. Probable standpipe
12-13. Storage buildings 435 x 80 feet; gable roofs
14-16. Buildings 65 x 60 feet; probably gable roofs
17. Building 50 x 45 feet; probably gable roof
18. Building 50 x 50 feet; probably gable roof
19. Storage building 80 x 30 feet; gable roof
20. U-shaped building 100 x 65 feet; probably flat roof
21. Storage building 90 x 90 feet; gable roof
22. Revetted storage building 155 x 70 feet; gable roof

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23. Probable standpipe
24. Probable drive-through storage building 355 x 200 feet; concrete aprons at both entrances; multiarched roof
25. Building 100 x 65 feet; concrete apron at entrance; probably flat roof
26. Drive-through building 145 x 1,250 feet; probably flat roof
27. Drive-through building 105 x 65 feet; gable roof
28. Probable storage building 265 x 135 feet; wide concrete apron at entrance; multiarched roof
29. Probable storage building 300 x 285 feet; wide concrete apron at entrance; multiarched roof
30. Drive-through building 220 x 135 feet; two concrete roads pass through building; multiarched roof
31. Drive-through probable checkout building 165 x 75 feet; flat roof
32. Possible tank, 65 feet in diameter
33. Rail-served, drive-through probable checkout building 200 x 75 feet; two concrete roads pass through building; concrete apron at entrances; multiarched roof
34. Building 65 x 60 feet; probably flat roof
35. Building 135 x 65 feet; flat roof
36-37. Unidentified circular objects, approximately 60 feet in diameter
38. Unidentified structure, 60 x 50 feet
39. Storage building 140 x 60 feet; gable roof
40. Drive-through probable checkout building 70 x 35 feet; gable roof
41. Building 85 x 60 feet; probably gable roof
42. Building 65 x 65 feet; roof type undetermined
43. Revetted possible oxidizer storage tank, 35 feet in diameter
44. Unidentified structure, 30 x 30 feet
45. Drive-through probable checkout building 100 x 65 feet; flat roof
46. Building 50 x 50 feet; roof type undetermined
47. Drive-through probable checkout building 150 x 65 feet; flat roof
48-49. Probable tanks, 25 feet in diameter
50. Storage building 100 x 65 feet; gable roof
51-54. Possible drive-through buildings 65 x 60 feet; roof types undetermined
55-56. Drive-through probable checkout buildings 135 x 50 feet; gable roofs
57. Storage building 180 x 90 feet; multiarched roof
58. Building 60 x 35 feet; probably gable roof
59. Storage building 300 x 100 feet; multiarched roof
60. Storage building 100 x 50 feet; probably gable roof
61. Possibly earth-covered storage building 210 x 190 feet; probably multiarched roof
62. Storage building 210 x 190 feet; multiarched roof
63. Storage building 165 x 140 feet; multiarched roof
64. Building 100 x 85 feet; probably flat roof
65. Probable drive-through building 65 x 50 feet; probably gable roof
66. Building 60 x 50 feet; roof type undetermined
67. Possibly revetted unidentified structure 50 x 35 feet
68. Probable bunker 65 x 35 feet
69. Building 60 x 50 feet; probably flat roof
70-71. Drive-through probable checkout buildings 200 x 135 feet; each building has three bays and each bay has a through road; multiarched roofs

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Housing and Administration Area

Administration buildings, multistory:
- 1 T-shaped, 200 x 135 feet
- 4 U-shaped, 215 x 135 feet
- 1 U-shaped, 100 x 75 feet

Barracks, multistory:
- 7 185 x 60 feet
- 4 135 x 55 feet
- 5 100 x 55 feet
- 1 150 x 60 feet
- 1 115 x 60 feet
- 1 100 x 75 feet
- 1 165 x 70 feet
- 2 85 x 50 feet

Storage buildings, single story:
- 1 70 x 55 feet
- 1 70 x 35 feet
- 1 100 x 35 feet
- 4 50 x 25 feet
- 1 65 x 35 feet
- 3 100 x 60 feet
- 4 135 x 35 feet
- 1 250 x 65 feet
- 4 25 x 25 feet
- 1 135 x 60 feet
- 1 165 x 50 feet
- 1 115 x 65 feet
- 1 probable standpipe

Athletic track

There is an additional support area immediately north of, and adjacent to, the facility. It is probably associated and contains 14 buildings.

SAM ASSEMBLY AND SUPPORT FACILITY 3

25X1A

This secured facility [redacted], is approximately 3.3 nm south-southwest of Ulyanovka and 25.2 nm south-southeast of Leningrad at 59-34-50N 30-44-00E. The facility is served by the SAM ring road and a single-track rail spur that extends approximately 0.8 nm northeast from the main rail line.

The facility has an assembly and support area and a housing and administration area (Figure 5). The assembly and support area is double fenced and contains 51 structures. The housing and support area is at least partly fenced and contains 64 administration, housing, and support buildings.

Assembly and Support Area

The following list of structures is keyed to the item numbers on Figure 4.

1-2. Missile-ready/checkout buildings 210 x 210; four hard-surfaced roads pass through each building; multiarched roofs

3. Storage building 290 x 50 feet; four roads lead into it; gable roof

4. Probable assembly building 350 x 155 feet; probably monitor roof

5. Building 25 x 25 feet; roof type undetermined

6. Building 115 x 85 feet; probably flat roof

7. L-shaped building 200 x 105 x 85 feet; flat roof

8-9. Storage buildings 80 x 55 feet; gable roofs

10. Storage building 330 x 70 feet; flat roof

11. Storage building 315 x 85 feet; probably flat roof

12-14. Storage buildings 275 x 95 feet; four hard-surfaced roads lead into each building; probably flat roofs

15. Storage building 260 x 90 feet; gable roof

16. Building 285 x 115 feet; probably flat roof

17. Building 40 x 40 feet; probably gable roof

18. Building 75 x 50 feet; roof type undetermined

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25X1D

FIGURE 4. FACILITY 2 [redacted] 25X1D

19. Building 60 x 25 feet; probably gable roof
20-21. Buildings 30 x 30 feet; roof type undetermined
22. Building 60 x 55 feet; roof type undetermined
23. Rail-served probable heating plant 105 x 95 feet
24. Storage building 165 x 65 feet; probably flat roof
25. Storage building 135 x 65 feet; probably flat roof
26. Storage building 290 x 50 feet; gable roof
27. Building 25 x 25 feet; concrete apron at entrance; probably flat roof
28. Building 70 x 35 feet; probably flat roof
29. Bunker 120 x 90 feet
30. Bunker 120 x 90 feet; wide concrete apron at entrance
31. Bunker 60 x 50 feet
32. Building 120 x 50 feet; roof type undetermined
33-34. Drive-through probable checkout buildings 60 x 50 feet; gable roofs
35. Unidentified structure 70 x 30 feet
36. Unidentified structure 30 x 30 feet

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37. Drive-through probable checkout building 65 x 40 feet; gable roof
38. Drive-through probable checkout building 140 x 30 feet; flat roof with probable rooftop ventilators
39. Revetted storage building 40 x 40 feet; roof type undetermined
40. Drive-through probable checkout building 60 x 50 feet; probably gable roof
41. Drive-through building 210 x 210 feet; multiarched roof
42. Building 145 x 125 feet; concrete apron at entrance; probably gable roof
43. Probable vehicle-storage building 140 x 100 feet; gable roof
44. Building 45 x 45 feet; roof type undetermined
45. Storage building 105 x 55 feet; gable roof
46. Building 30 x 30 feet; roof type undetermined
47. Building 55 x 40 feet; probably gable roof
48. Building 40 x 20 feet; probably gable roof
49. Building 40 x 40 feet; roof type undetermined
50. Building 35 x 10 feet; probably gable roof
51. Unidentified structure

Housing and Administration Area

Administration buildings, multistory:
- 1 T-shaped 150 x 130 feet
- 1 U-shaped 100 x 65 feet

Barracks, multistory:
- 3 90 x 55 feet
- 7 115 x 55 feet
- 3 130 x 55 feet
- 3 175 x 55 feet
- 3 115 x 45 feet
- 2 235 x 60 feet

Barracks, single story:
- 4 60 x 60 feet

Storage buildings, single story:
- 1 235 x 60 feet
- 1 145 x 55 feet
- 6 115 x 45 feet
- 6 55 x 55 feet
- 4 115 x 60 feet
- 2 105 x 45 feet
- 2 65 x 50 feet
- 1 60 x 60 feet
- 1 75 x 55 feet
- 2 55 x 30 feet
- 1 60 x 45 feet

Athletic track

Miscellaneous buildings, single story:
- 1 60 x 30 feet
- 6 support, 25 x 25 feet
- 1 support, 75 x 50 feet
- 1 support, 45 x 45 feet
- 1 support, 55 x 30 feet

SAM ASSEMBLY AND SUPPORT FACILITY 4

This facility [redacted] is approximately 7 nm southwest of Gatchina and 27.5 nm southwest of Leningrad at 59-31-30N 29-55-10E. The facility is on the north side of the SAM ring road and is served by a single-track rail spur that extends approximately one nm northwest from the main rail line. 25X1A

The facility has a double fenced assembly and support area and three nearby support areas containing administration and housing (Figures 6 and 7). There is an SA-2 site adjacent to the administration and housing area northeast of the assembly and support area.

The assembly and support area contains 76 buildings, four of which are drive-through, monitor roofed, assembly buildings, 225 by 75 feet. The presence of these buildings as well as of a transloading point at the junction with the main

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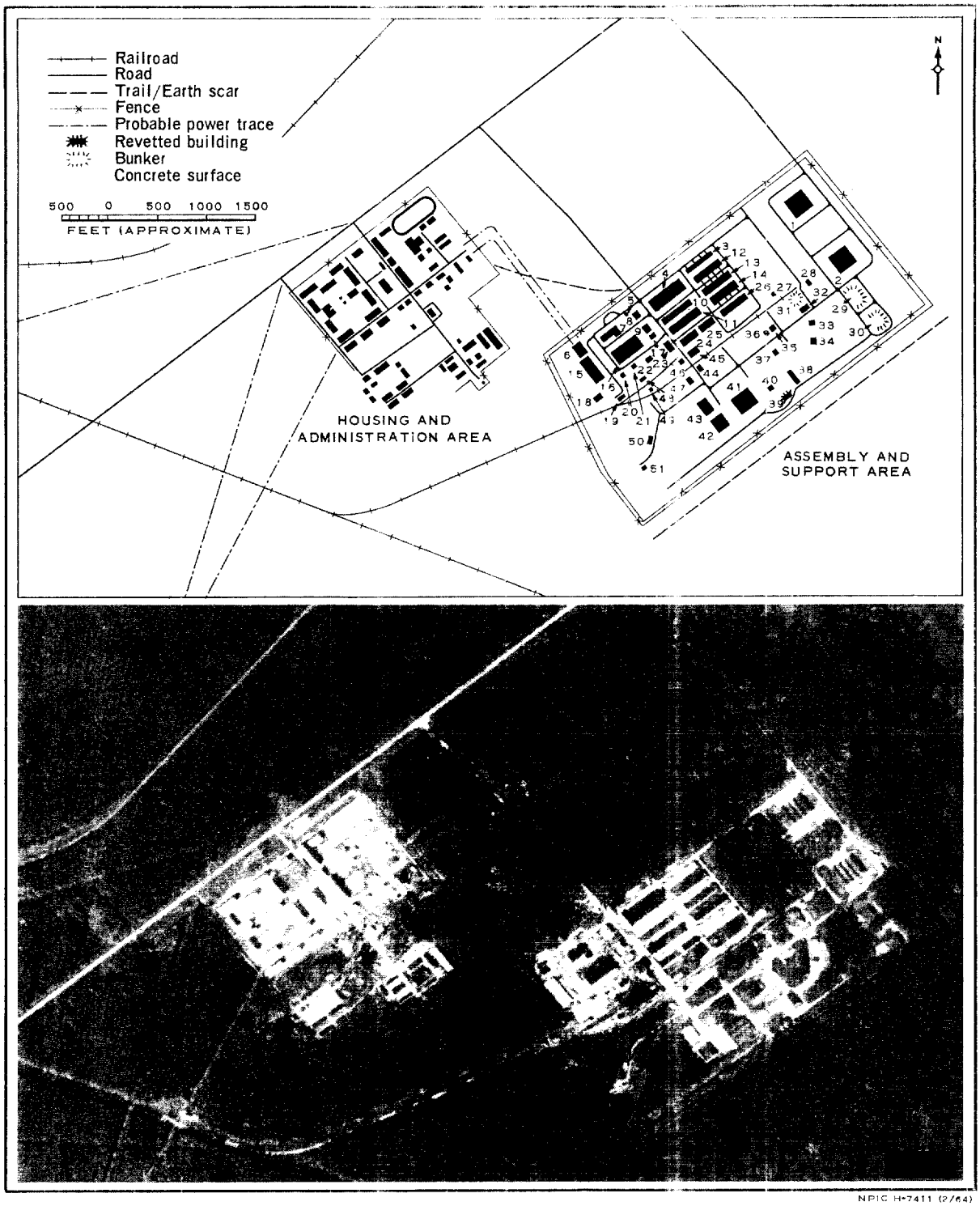

25X1D

FIGURE 5. FACILITY 3.

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rail line indicate that all major assembly may be carried out here for the four facilities.

Assembly and Support Area

The following list of structures is keyed to the item numbers on Figure 5.

1-2. Buildings 25 x 20 feet; gable roofs
3. Building 100 x 50 feet; gable roof
4. Building 95 x 55 feet; gable roof
5. L-shaped building 110 x 65 x 30 feet; gable roof
6. Storage building 265 x 95 feet; concrete apron between it and Item 7; gable roof
7. Storage building 250 x 75 feet; concrete apron between it and Item 6; gable roof
8. Building 90 x 50 feet; gable roof
9. Building 50 x 25 feet; probably gable roof
10. Building 180 x 70 feet; probably flat roof
11. Support building 100 x 40 feet; flat roof
12. Central heating plant 150 x 75 feet; conveyer from rail spur to plant
13-15. Revetted storage buildings 235 x 95 feet; each has wide concrete apron at entrance; gable roofs
16. Revetted storage building 100 x 60 feet; gable roof
17. Storage building 230 x 60 feet; concrete apron between it and Item 18; gable roof
18. Storage building 250 x 75 feet; concrete apron between it and Item 17; gable roof
19. Probable vehicle shed 275 x 115; corrugated roof
20. Probable storage tank 50 feet in diameter
21. Unidentified structure 350 x 110 feet; flat roof
22. Building 50 x 20 feet; gable roof
23-24. Support buildings 100 x 40 feet; gable roofs
25. Revetted storage building 90 x 50 feet
26. Building 25 x 25 feet; roof type undetermined
27. Drive-through probable checkout building 75 x 35 feet; probably gable roof
28. Revetted storage building 110 x 50 feet
29. Bunker 110 x 110 feet
30. Revetted storage building 100 x 65 feet; probably flat roof
31. Revetted storage building 75 x 30 feet; flat roof
32. Building 90 x 55 feet; earthen blast wall east of building; flat roof
33-34. Drive-through probable checkout buildings 75 x 35 feet; gable roofs
35. Probable checkout building 105 x 60 feet; flat roof
36. Revetted possible storage building approximately 50 x 50 feet; flat roof
37. Revetted probable oxidizer storage tank 25 feet in diameter
38. Revetted storage building 25 x 25 feet; flat roof
39. Probable drive-through building 50 x 50 feet; flat roof
40. Building 90 x 65 feet; flat roof
41. Building 50 x 50 feet; flat roof
42-43. Buildings 75 x 35 feet; gable roofs
44. Storage building 120 x 40 feet; gable roof
45. Building 25 x 25 feet; roof type undetermined
46-47. Drive-through probable checkout buildings 75 x 35 feet; gable roofs
48. Drive-through probable checkout building 135 x 75 feet; flat roof
49. Possible checkout building 60 x 30 feet; probably drive-through; flat roof
50. Drive-through assembly/checkout building 225 x 75 feet; probably flat roof
51-54. Drive-through assembly buildings 345 x 145 feet; monitor roofs
55. Building 25 x 25 feet; probably flat roof
56. Object in dense vegetation; at least 20 feet in diameter

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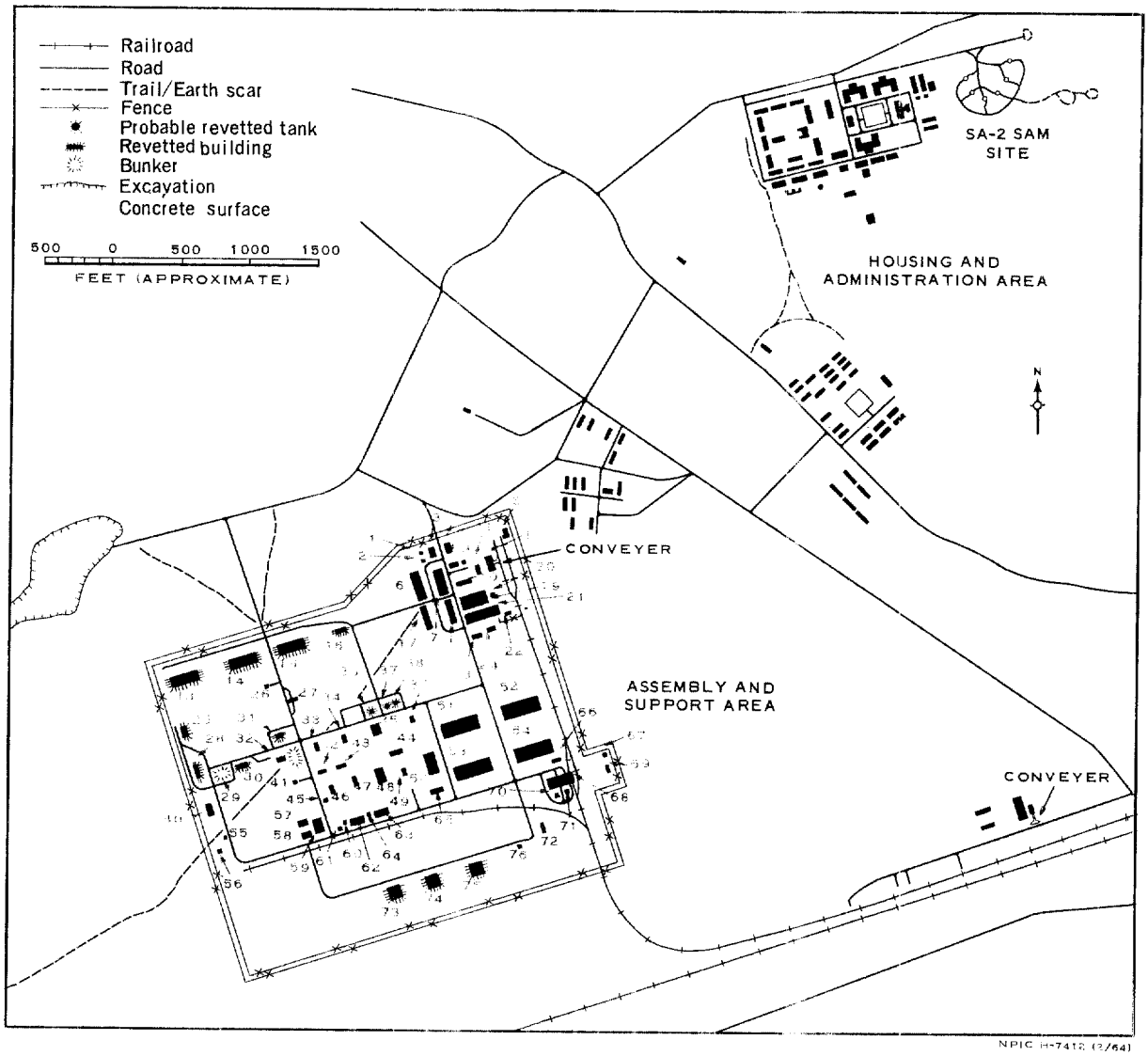

FIGURE 6. FACILITY 4.

57-58. Buildings 90 x 65 feet; flat roofs
59. Building 150 x 80 feet; flat roof
60. Building 25 x 25 feet; probably flat roof
61. Building 40 x 40 feet; probably flat roof
62-63. Buildings 115 x 90 feet
64. Building 65 x 65 feet; flat roof
65. Storage building 120 x 40 feet; gable roof
66. Building 35 x 35 feet; gable roof
67. Possible tower
68. Drive-through probable assembly building 225 x 85 feet; two [redacted] hard-surfaced roads and a rail spur pass through the building; probably low-pitched gable roof
69. Building 50 x 35 feet; probably gable roof
70-71. Buildings 75 x 75 feet; encircled by concrete roads; probably flat roofs

25X1D

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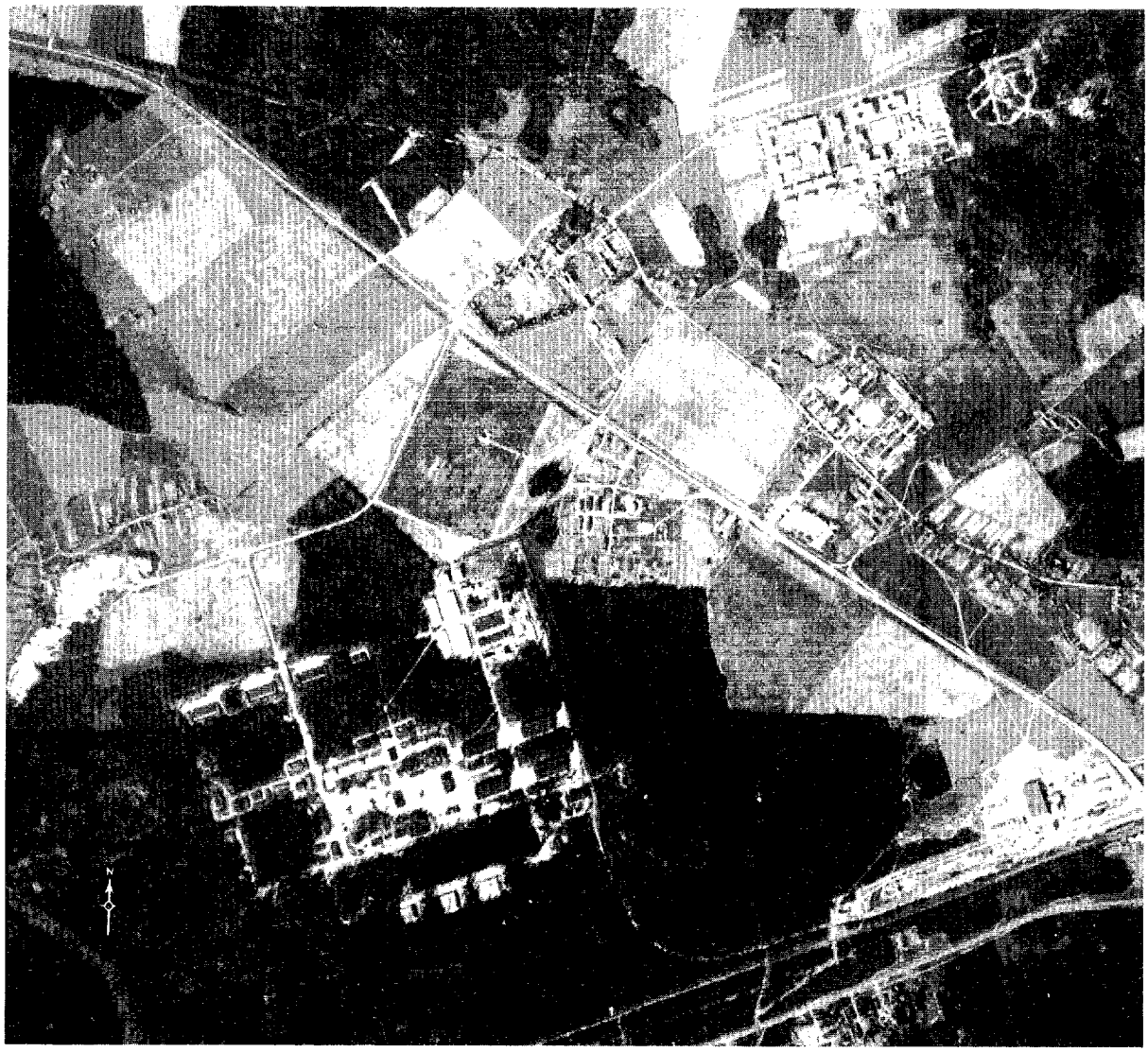

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25X1D

FIGURE 7. FACILITY 4, [redacted] 25X1D

72. Building 100 x 65 feet; 80-foot-wide concrete apron at entrance; gable roof

73. Storage building 90 x 85 feet; revetted on three sides; probably flat roof

74-75. Storage buildings 150 x 130 feet; revetted on three sides; probably flat roofs

76. Building 25 x 25 feet; roof type undetermined

Housing and Administration Area

Administration buildings, multistory:
- 3 U-shaped 235 x 125 feet
- 1 U-shaped 110 x 65 feet
- 1 T-shaped 190 x 155 feet
- 1 multiwinged 115 x 65 feet

Barracks, multistory
- 7 180 x 45 feet

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8 105 x 45 feet
6 140 x 40 feet
3 125 x 50 feet
4 90 x 40 feet
4 65 x 45 feet

1 155 x 80 feet
Possible water tower, 30 feet in diameter

Between the facility and the main support area there are two probably associated housing areas containing 47 buildings.

CONCLUSIONS

25X1D

The quality of [redacted] KEYHOLE photography does not permit a detailed analysis of the facilities, but comparison of this photography with that of later missions indicates that no new significant construction had occurred since [redacted] The lack of photographic coverage in the [redacted] period and the quality of photography from [redacted] until [redacted] preclude the possibility of establishing that construction at the facilities was concurrent with initial construction of the probable AMM launch complexes.

25X1D
25X1D
25X1D
25X1D

Although the four facilities are similar in the probable missile checkout flow pattern, other elements differ. Facility 4 is the only one with four large assembly-type buildings. It is possible that all major assembly is carried out there, with only subassembly being carried out at the other three facilities. The extent of rail transfer and offloading capabilities at Facility 4 also supports this conclusion.

The four facilities are readily accessible to the probable AMM complexes and appear to be able to service them, but this cannot be ascertained from available photography.

REFERENCES

PHOTOGRAPHY

25X1D

[redacted]

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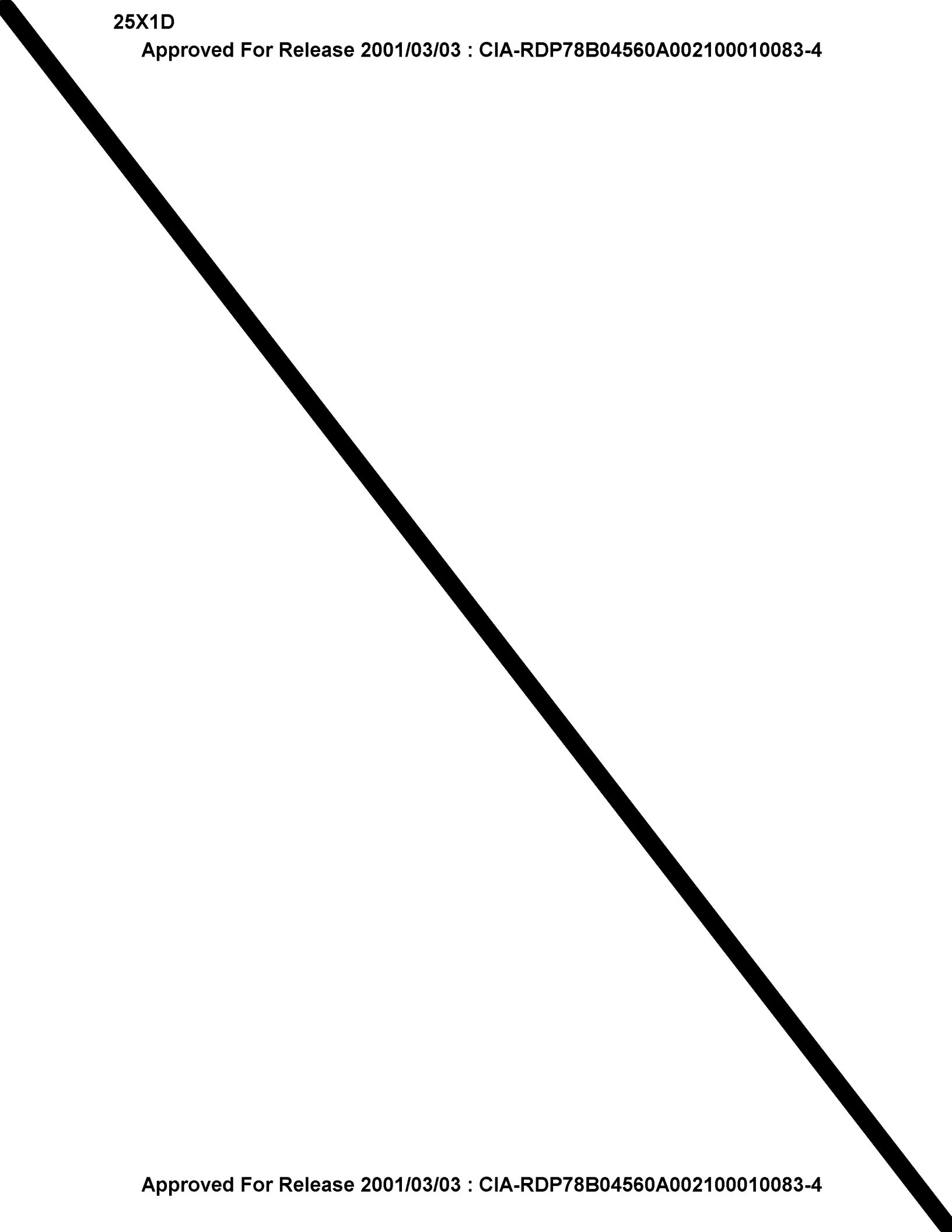

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REFERENCES (Continued)

25X1D

[redacted]

MAPS OR CHARTS

Facilities 1 and 2:

ACIC. US Air Target Chart, Series 200, Sheet 0103-25HL, 3d ed, Jun 62, scale 1:200,000 (SECRET)

Facilities 3 and 4:

DIA. US Air Target Chart, Series 200, Sheet 0153-4HL, 2d ed, May 63, scale 1:200,000 (SECRET)

DOCUMENTS

1. CIA. HTA-R4-57, A Metric Analysis of Missile Sites and Assembly Installations around Moscow, Jun 57 (TOP SECRET TALENT)

2. CIA. NPIC-R-132/63, Preliminary Study, SA-2 SAM Support Facilities, USSR and Satellites, Jul 63 (TOP SECRET CHESS RUFF/No Foreign Dissem)

REQUIREMENTS

Army. TK-SRI-9-1-61

CIA. C-RR3-80.459

NPIC PROJECT

J-280/63

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